

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

25 March 2011

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1103256

Enclosed are the results of analyses for samples received by the laboratory on 18-Mar-11 09:50. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	•
Containers Correct	<u> </u>
COC/Labels Agree	<u> </u>
Preservation Confirmed	<u> </u>
Received On Ice	<u> </u>
Temperature on Receipt	4.0°C

Sincerely,

Norma James President

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Date Received: 18-Mar-11 09:50



SAMPLE DELIVERY GROUP: 1103256

SEMIVOLATILES:

The six compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The six surrogate compounds are: 2,4,6-tribromophenol, 2-fluorophenol, Nitrobenzene-d5, Phenol-d5, and Terphenyl-d14.



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ANALYTICAL RESULTS

Lab Number: 1103256-01
Sample Name: Mouth
Date/Time Collected: 3/17/11 12:10
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	14.2		3/19/11 0:10	A103290	8270D
2,4,6-Tribromophenol [surr]	%	124		3/19/11 0:10	A103290	8270D
2-Fluorophenol [surr]	%	46.6		3/19/11 0:10	A103290	8270D
Phenol-d5 [surr]	%	29.7		3/19/11 0:10	A103290	8270D

ANALYTICAL RESULTS

Lab Number: 1103256-02
Sample Name: Weir
Date/Time Collected: 3/17/11 12:20
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 5.00		3/18/11 23:24	A103290	8270D
2,4,6-Tribromophenol [surr]	%	85.4		3/18/11 23:24	A103290	8270D
2-Fluorophenol [surr]	%	34.8		3/18/11 23:24	A103290	8270D
Phenol-d5 [surr]	%	21.8		3/18/11 23:24	A103290	8270D

Arkansas Analytical

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QUALITY CONTROL RESULTS

Semivolatiles - Quality Control Analyzed: 18-Mar-11 20:18 By: TB

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A103290 - 3550B: Modified										
Blank (A103290-BLK1)				Prepared 8	k Analyzed:	: 18-Mar-11				
Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	42.9		"	40.0		107	39.2-127			
Surrogate: 2-Fluorophenol	25.9		"	40.0		64.7	10.7-76.6			
Surrogate: Phenol-d5	21.0		"	40.0		52.4	13-62.4			
LCS (A103290-BS1)				Prepared 8	k Analyzed:	: 18-Mar-11				
Pentachlorophenol	32.5	5.00	ug/L	40.0		81.2	65.4-117			
Surrogate: 2,4,6-Tribromophenol	37.9		"	40.0		94.8	39.2-127			
Surrogate: 2-Fluorophenol	24.1		"	40.0		60.2	10.7-76.6			
Surrogate: Phenol-d5	20.1		"	40.0		50.1	13-62.4			
Matrix Spike (A103290-MS1)	Source: 1103256-02 Prepared & Analyzed: 18-Mar-11									
Pentachlorophenol	30.4	5.00	ug/L	40.0	ND	76.0	49.6-126			
Surrogate: 2,4,6-Tribromophenol	31.7		"	40.0		79.2	39.2-127			
Surrogate: 2-Fluorophenol	14.9		"	40.0		<i>37.3</i>	10.7-76.6			
Surrogate: Phenol-d5	11.2		"	40.0		28.1	13-62.4			
Matrix Spike Dup (A103290-MSD1)	Sour	56-02	Prepared & Analyzed: 18-Mar-11							
Pentachlorophenol	29.8	5.00	ug/L	40.0	ND	74.6	49.6-126	1.85	30	
Surrogate: 2,4,6-Tribromophenol	29.9		"	40.0		74.8	39.2-127			
Surrogate: 2-Fluorophenol	16.5		"	40.0		41.2	10.7-76.6			
Surrogate: Phenol-d5	12.1		"	40.0		30.3	13-62.4			

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition. Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President Arkansas Analytical

Oxford Environmental & Safety, Inc

Overland Park, KS 66221 Project: Arkwood Monthly Sampling Date Received: 18-Mar-11 09:50 14348 Nieman Rd.

CHAIN OF CUSTODY FORM(S)

12/1/10



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION						Project Desc	ription	Turnaround Time	Preservation Codes:				
Oxford Environmental & Safety, Inc. 14348 Nieman Rd. Overland Park KS 66221					Arkwood Monthly	24 Hour	1. Cuol, 4 Degrees Centigrade			4. Thissalfate	4. Thissulfate for Dechlorization		
						48 Hour	2. Selferic A	cid (H,SO _a), p	H < 2	5. Hydrochlori	r Arid(HCI)		
					Reporting Info	ormation	72 Hour Routine (5 Day)	3. Nitric Aci	r (HNO.), pH			ruxide (NaOH), pH > 12	
						Telephone: 913-		706-3422 (>			TEST	Butte Type Code
Attn: Jim Fleer						Email jfleer@oxfor	Preservative Code	1				G - Glus, P - Pums	
			_					Batte Type	GA	\rightarrow	-	\vdash	V = Signus; A = Anhe
James Sampler(s) Si	Fleer Ja	Yuu Oh	Samp	pler(s) Print	ed			Pentachlorophenol (8270D)				Arkansas Analytical Worl Order Number
Field	SAMPLE CO	OLLECTION			Number		SAMPLE			11			N # 20 Av
Number	Date/s	Time/s	Drab	Cons	df Sottles	Sample IDENTIFI	CATION/ DES	CRIPTION	Per (82)				1103256
	3117/2011	12:10	Х		1	Water Mouth			X				r)1
	3/17/2011	12:20	x			Water Weir			x				02
	101111	10.01	1		-	VALUE VVCII							
													-
			H		-								
	-		⊢	H	H								-
			H										
Retinquished	by: (Signature)	Date/Time	_	2. Re	ceived	by: (Signature)	SAMPLE	CONDITION UPON	RECEIRT IN	LAB	Ri	EMARKS / SAMPLI	COMMENTS
			1. CUSTODY SEALS.			Vyes	100	MS/MSD Collected from: West					
					6				1		0.0	-5-9	C11
					VI	CLEX	2. CONTAINER	S CORRECT:	Yes	No I	Uz Pou	1 - 30 18	7 - 1 87
				_	1	74	3. COCILABELS	AGREE	Yes	_No	Oz Car	Kertahan 2 S	0.51 /0
3. Relinquished by: (Signature) Data/Time 4. Required			by lab: (Signature) 4 PRESERVATION CONFIRMED			Yes _	No.	Oz Power = 50% Oz Concertadion = 3.31 % Residual Oz = 1.263 ppm Flow Rote = 49.03 gpm Injection Well - A					
1		1/10/1				. (\-r_1	5 RECEIVED O	NICE		No	Flow	Rote = 49.	03gpm
Soul	IEX	2/10/	N		1	anda Johnsh		RE ON RECEIPT	4 ves		Thie	lon Well = 1	1
18	11 1	M	μ		AM	May to Mark	processor of the Party of the P			_	This	Ter Frede 1	
Revision					1		FOR	R COMPLETION BY	LAB ONLY				